

Statewide *E. coli* Total Maximum Daily Load (TMDL)  
Addendum – 2020  
Impaired Water Bodies and Percent Reductions

This addendum contains a list of water bodies that are covered by the Statewide *E. coli* TMDL. All biennial updates of the Sections 303(d), 305(b), and 314 Integrated Report will include an addendum intended to build on Appendix 1, as summarized in Section 1.2, and described in more detail in Appendix 2 of the Statewide *E. coli* TMDL.

Water bodies that have been restored and remain protected by the TMDL are listed in Attachment 1.

For each water body listed (Attachment 2), the ultimate water quality goal is to meet the requirements for removal from the Section 303(d) list contained in the Assessment Methodology Section of the most recently approved Integrated Report. The data summarized for each water body includes all sample results that are readily available and may not contain the exact dataset that was used in making the initial impairment decision (pursuant to the assessment methodology at the time the decision was made). The information in Columns 3-12 (Attachment 2) is provided for informational purposes only, to assist stakeholders in determining the magnitude of the problem in their water body.

In order to give stakeholders an overview of the water quality in the impaired waters, the table (Attachment 2) provides the following:

Column 1 - AUID - Michigan uses the National Hydrography Dataset to organize and identify water bodies for the Section 303(d) and 305(b) lists. A base assessment unit is a 12-digit HUC, which may be split further into smaller assessment units depending on information such as land use, known areas of contamination, specific fish consumption advisories, physical barriers such as dams, etc. Each unit is assigned a numeric Assessment Unit Identifier (AUID) and may consist of all water bodies in a 12-digit HUC (as a maximum) or specific stream segments or lakes located in that HUC. AUIDs may also be lakes or points, such as in the case of clearly defined and monitored bathing beaches or public water supply intakes.

Column 2 - Water Body Type - AUIDs can be beaches, rivers/streams, lakes, public water supply intakes, or shorelines.

Column 3 - n (number) - Number of daily geometric means that were used in the calculation of Column 4 (geometric mean of all data in each AUID). The data for all sites in an AUID are combined for the total number of daily geometric means.

Column 4 - Geometric mean of all *E. coli* data in each AUID (river segment, lake, or beach). Geometric mean of all available data within the AUID. This value is used for calculating Column 5 (percent reduction) for informational purposes only but is not used in evaluating attainment status for assessment purposes. This number cannot be compared to the daily or 30-day water quality standard (WQS), since it contains data from more than one day and potentially more than one 30-day period. Data are only included if they meet the criteria of three or more individual samples during the same sampling event.

Column 5 - Percent Reduction - This value, provided for informational purposes, represents the amount of reduction that would be necessary for the geometric mean of all data (Column 4) to reach the 300 *E. coli* per 100 milliliter (mL) daily threshold. Attaining this reduction does not necessarily mean that the water body will be removed from the TMDL. The assessment methodology contained in the most recently approved Integrated

Report determines the criteria for removal of a water body from the impairment status. In some cases, the percent reduction is not provided because the geometric mean in Column 4 was less than the 300 *E. coli* per 100 mL daily threshold. In all cases, the water quality goal is to meet the threshold for removal of the impairment following the Assessment Methodology Section of the most recently approved Integrated Report.

Column 6 - Number of 30-Day Geometric Means - Number of 30-day geometric means that were calculated and used in the calculation of Column 7 (Percent 30-Day Exceedance). If 30-day geometric means were not calculated when the data were submitted to the Michigan Department of Environment, Great Lakes, and Energy (EGLE), then this value may be 0.

Column 7 - Percent 30-Day Total Body Contact (TBC) Exceedance - Percent of available 30-day geometric means (Column 6) that are exceeding the threshold of 130 *E. coli* per 100 mL. If only one 30-day geometric mean is available, this value will be 0 or 100%.

Column 8 - Percent Daily TBC Exceedances - Percent of daily geometric means (“n,” Column 3) that exceed the 300 *E. coli* per 100 mL threshold.

Column 9 - Percent Partial Body Contact (PBC) Exceedance - Percent of daily geometric means (“n,” Column 3) that exceed the 1,000 *E. coli* per 100 mL threshold.

Column 10 - Interstate Waters - Inland waters that flow directly in or out of Michigan, from other states, are flagged with the direction of flow and the state involved; for example, waters marked “From Indiana” leave Indiana and enter Michigan. Waters are only flagged if EGLE has evidence of an impairment that extends to our border.

Column 11 - Code - This column contains notes that are unique to the water body:

Data1: The summary for this water body is based on a small dataset ( $n < 5$ ) but is supported by a larger dataset ( $n > 5$ ) from a nearby contiguous and comparable AUID.

Data2: The summary for this water body is based on contiguous up or downstream AUID(s) with consistent land use patterns ( $n > 5$ ).

Declining WQ (Water Quality): These water bodies, typically beaches, have large datasets where older data show few exceedances of the WQS, but newer data show an impairment according to the most current Assessment Methodology in the Integrated Report.

Raw Sewage: Water bodies are listed as impaired based on the presence of raw sewage in surface water.

Reissue: This water body is already in a USEPA approved *E. coli* TMDL, and that TMDL is being revoked and reissued. Once this 2020 TMDL Addenda is approved by the USEPA, this water body will be part of the statewide TMDL.

Restored: This water body has recent data sufficient to categorize it as ‘fully attaining’ the applicable WQS (using the criteria for removal of the impairment in the Assessment Methodology Section); however, they remain protected by the TMDL.

Column 12 – Year First Listed - This column contains the Integrated Reporting cycle year where the water body was first listed as not attaining the TBC designated use. Each biennial submittal of the Integrated Report contains a description and guidance on data requirements to list an AUID as impaired.

# Restored Water Bodies (Meeting Criteria - Category 2) - 2020 Addendum to the Statewide E. coli Total Maximum Daily Load.



Column 1: Assessment Unit	Column 2: Type	Column 3: n	Column 4: Geometric Mean (E. coli)	Column 5: % Reduction	Column 6: # of 30-Day Geometric Means	Column 7: % 30-day TBC Exceedance	Column 8: % Daily TBC Exceedance	Column 9: % Daily PBC Exceedance	Column 10: Interstate Waters	Column 11: Code	Column 12: Year 1st Listed
Watershed	04050003		Kalamazoo								
Subwatershed	040500030701	Gun Lake-Gun River									
040500030701-06	Beach/Launch	152	26		104	13%	9%	2%		Restored	2014

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<b>Watershed</b>	04020101		Black-Presque Isle								
<b>Subwatershed</b>	040201010205		Powder Mill Creek-Black River								
040201010205-03	River	5	143		1	100%	0%	0%			2020
040201010205-04	River	5	143		1	100%	0%	0%		Data2	2020
040201010205-05	River	5	242		1	100%	20%	0%			2020
<b>Watershed</b>	04020103		Keweenaw Peninsula								
<b>Subwatershed</b>	040201030104		West Branch Fiersteel River								
040201030104-01	River	14	67		2	100%	14%	0%			2020
040201030104-04	River	5	52		1	0%	40%	20%			2020
040201030104-05	River	8	95		1	0%	25%	13%			2020
<b>Watershed</b>	04030108		Menominee								
<b>Subwatershed</b>	040301080912		Little River								
040301080912-01	River	9	77		1	0%	22%	0%			2020
040301080912-02	River	9	101		1	100%	22%	0%			2020
040301080912-03	River	5	403	25.6%	1	100%	40%	40%			2020
<b>Watershed</b>	04050002		Black-Macatawa								
<b>Subwatershed</b>	040500020403		Middle Macatawa River								
040500020403-01	River	5	504	40.5%	1	100%	100%	20%			2020
040500020403-03	River	5	416	27.9%	1	100%	60%	0%			2020
<b>Subwatershed</b>	040500020404		North Branch Macatawa River								
040500020404-01	River	5	608	50.6%	1	100%	80%	20%			2020

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Subwatershed	040500020405	Bosch and Hulst Drain									
040500020405-01	River	5	654	54.2%	1	100%	80%	40%			2020
Subwatershed	040500020406	Lower Macatawa River									
040500020406-01	River	10	590	49.2%	2	100%	80%	30%			2020
Subwatershed	040500020407	Pine Creek									
040500020407-01	River	5	469	36.0%	1	100%	80%	20%			2020
Watershed	04050003	Kalamazoo									
Subwatershed	040500030102	Spring Arbor and Concord Drain									
040500030102-01	River	20	207		4	75%	45%	0%			2020
Subwatershed	040500030303	Big Creek									
040500030303-01	River	5	793	62.2%	1	100%	100%	20%			2020
Subwatershed	040500030305	Indian Creek									
040500030305-01	River	5	876	65.8%	1	100%	100%	60%			2020
Subwatershed	040500030306	Dillon Relaid Drain-Battle Creek									
040500030306-02	River	5	686	56.2%	1	100%	100%	20%			2020
Subwatershed	040500030307	Townline Brook Drain-Battle Creek									
040500030307-01	River	20	599	49.9%	4	100%	80%	25%		Data2	2020
Subwatershed	040500030308	Ackley Creek-Battle Creek									
040500030308-01	River	20	599	49.9%	4	100%	80%	25%		Data2	2020
Subwatershed	040500030309	Clear Lake-Battle Creek									
040500030309-01	River	5	270		1	100%	20%	0%			2020

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<b>Subwatershed</b>	<b>040500030311</b>	<b>Wanadoga Creek</b>									
040500030311-01	River	5	638	53.0%	1	100%	100%	20%			2020
040500030311-02	River	5	530	43.4%	1	100%	100%	20%			2020
040500030311-03	River	9	1,325	77.4%	1	100%	100%	78%			2020
<b>Subwatershed</b>	<b>040500030312</b>	<b>Battle Creek</b>									
040500030312-01	River	10	567	47.1%	2	100%	50%	30%		Data2	2020
040500030312-02	River	5	1,190	74.8%	1	100%	80%	60%			2020
<b>Subwatershed</b>	<b>040500030702</b>	<b>Fenner Creek-Gun River</b>									
040500030702-05	River	5	173		1	100%	20%	0%			2020
040500030702-06	River	5	719	58.3%	1	100%	100%	20%			2020
<b>Subwatershed</b>	<b>040500030703</b>	<b>Gun River</b>									
040500030703-01	River	5	553	45.7%	1	100%	100%	0%			2020
<b>Subwatershed</b>	<b>040500030801</b>	<b>Green Lake Creek</b>									
040500030801-01	River	5	1,933	84.5%	1	100%	100%	60%			2020
<b>Subwatershed</b>	<b>040500030802</b>	<b>Fales Drain-Rabbit River</b>									
040500030802-01	River	5	963	68.9%	1	100%	100%	20%			2020
<b>Subwatershed</b>	<b>040500030803</b>	<b>Miller Creek</b>									
040500030803-02	River	5	1,434	79.1%	1	100%	100%	20%			2020
<b>Subwatershed</b>	<b>040500030804</b>	<b>Bear Creek</b>									
040500030804-01	River	5	2,405	87.5%	1	100%	100%	40%			2020
<b>Subwatershed</b>	<b>040500030805</b>	<b>Buskirk Creek-Rabbit River</b>									
040500030805-01	River	4	748	59.9%	0		100%	25%		Data1	2020

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<b>Subwatershed</b>	<b>040500030806</b>	<b>Headwaters Little Rabbit River</b>									
040500030806-02	River	5	2,513	88.1%	1	100%	100%	40%			2020
040500030806-03	River	5	1,648	81.8%	1	100%	100%	40%			2020
<b>Subwatershed</b>	<b>040500030807</b>	<b>Little Rabbit River</b>									
040500030807-01	River	5	2,508	88.0%	1	100%	100%	60%			2020
<b>Subwatershed</b>	<b>040500030808</b>	<b>Pigeon Creek-Rabbit River</b>									
040500030808-01	River	9	765	60.8%	1	100%	89%	33%			2020
040500030808-02	River	5	2,819	89.4%	1	100%	100%	80%			2020
<b>Subwatershed</b>	<b>040500030809</b>	<b>Black Creek</b>									
040500030809-01	River	15	2,696	88.9%	3	100%	100%	73%			2020
<b>Subwatershed</b>	<b>040500030810</b>	<b>Silver Creek-Rabbit River</b>									
040500030810-01	River	5	1,335	77.5%	1	100%	100%	20%			2020
<b>Subwatershed</b>	<b>040500030902</b>	<b>Base Line Creek</b>									
040500030902-02	River	5	544	44.8%	1	100%	100%	0%			2020
<b>Subwatershed</b>	<b>040500030903</b>	<b>Pine Creek</b>									
040500030903-01	River	10	367	18.4%	2	100%	60%	0%			2020
<b>Watershed</b>	<b>04050004</b>	<b>Upper Grand</b>									
<b>Subwatershed</b>	<b>040500040709</b>	<b>Cryderman Lake Drain-Grand River</b>									
040500040709-01	River	18	641	53.2%	10	90%	72%	50%			2020
<b>Subwatershed</b>	<b>040500040710</b>	<b>Goose Creek-Grand River</b>									
040500040710-01	River	15	180		6	50%	27%	20%		Data2	2020

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<b>Watershed</b>	04050005		<b>Maple</b>								
<b>Subwatershed</b>	040500050201		<b>Baker Creek</b>								
040500050201-01	River	5	796	62.3%	1	100%	100%	40%			2020
040500050201-02	River	5	298		1	100%	40%	0%			2020
<b>Subwatershed</b>	040500050204		<b>Ferdon Creek-Maple River</b>								
040500050204-02	River	17	1,084	72.3%	1	100%	76%	41%		Data2	2020
040500050204-03	River	17	1,084	72.3%	1	100%	76%	41%		Data2	2020
<b>Subwatershed</b>	040500050208		<b>Collier Creek-Maple River</b>								
040500050208-01	River	5	282		1	100%	20%	0%		Data2	2020
040500050208-02	River	5	282		1	100%	20%	0%			2020
<b>Watershed</b>	04050006		<b>Lower Grand</b>								
<b>Subwatershed</b>	040500060307		<b>Dry Creek-Grand River</b>								
040500060307-01	River	15	180		6	50%	27%	20%		Data2	2020
<b>Subwatershed</b>	040500060309		<b>Bellemy Creek-Grand River</b>								
040500060309-01	River	15	180		6	50%	27%	20%		Data2	2020
<b>Subwatershed</b>	040500060310		<b>Crooked Creek-Grand River</b>								
040500060310-01	River	15	180		6	50%	27%	20%		Data2	2020
<b>Subwatershed</b>	040500060312		<b>Toles Creek-Grand River</b>								
040500060312-01	River	7	141		2	0%	14%	14%			2020
<b>Subwatershed</b>	040500060313		<b>Lee Creek-Grand River</b>								
040500060313-01	River	15	96		6	0%	20%	7%		Data2	2020
<b>Subwatershed</b>	040500060401		<b>Hickory Creek-Rogue River</b>								
040500060401-02	River	9	76		1	100%	0%	0%			2020

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Subwatershed	040500060402	Duke Creek									
040500060402-01	River	5	565	46.9%	1	100%	100%	20%			2020
Subwatershed	040500060403	Spring Creek-Rogue River									
040500060403-03	River	10	229		2	100%	40%	0%		Data2	2020
Subwatershed	040500060404	Nash Creek									
040500060404-01	River	5	388	22.8%	1	100%	80%	0%			2020
Subwatershed	040500060405	Ball Creek-Rogue River									
040500060405-02	River	5	860	65.1%	1	100%	100%	60%			2020
040500060405-05	River	9	203		1	100%	44%	0%			2020
Subwatershed	040500060406	Cedar Creek									
040500060406-02	River	5	670	55.2%	1	100%	80%	20%			2020
Subwatershed	040500060407	Freska Lake-Rogue River									
040500060407-01	River	22	179		2	100%	32%	5%		Data2	2020
Subwatershed	040500060408	Stegman Creek-Rogue River									
040500060408-05	River	9	203		1	100%	22%	11%			2020
Subwatershed	040500060501	Bear Creek									
040500060501-01	River	9	438	31.5%	1	100%	56%	33%			2020
040500060501-02	River	22	408	26.4%	2	100%	55%	27%			2020
040500060501-04	River	18	574	47.7%	2	100%	61%	33%		Data2	2020
Subwatershed	040500060502	Egypt Creek-Grand River									
040500060502-01	River	8	69		4	0%	25%	0%			2020

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<b>Subwatershed</b>	<b>040500060601</b>	<b>North Branch Crockery Creek</b>									
040500060601-03	River	5	2,311	87.0%	1	100%	100%	80%			2020
040500060601-04	River	15	2,155	86.1%	3	100%	93%	73%			2020
040500060601-05	River	5	2,311	87.0%	1	100%	100%	80%		Data2	2020
<b>Subwatershed</b>	<b>040500060602</b>	<b>Eastland Drain-Crockery Creek</b>									
040500060602-05	River	15	1,185	74.7%	3	100%	100%	60%			2020
<b>Subwatershed</b>	<b>040500060603</b>	<b>Rio Grande Creek-Crockery Creek</b>									
040500060603-01	River	2	7,441	96.0%	0		100%	100%		Data1	2020
<b>Subwatershed</b>	<b>040500060604</b>	<b>Lawrence Drain-Crockery Creek</b>									
040500060604-01	River	5	3,926	92.4%	1	100%	80%	60%			2020
040500060604-02	River	10	2,111	85.8%	2	100%	80%	50%		Data2	2020
<b>Subwatershed</b>	<b>040500060605</b>	<b>Crockery Creek</b>									
040500060605-01	River	8	659	54.5%	1	100%	63%	25%			2020
<b>Subwatershed</b>	<b>040500060701</b>	<b>East Fork</b>									
040500060701-01	River	5	1,720	82.6%	1	100%	100%	60%			2020
<b>Subwatershed</b>	<b>040500060702</b>	<b>Headwaters Sand Creek</b>									
040500060702-01	River	5	4,153	92.8%	1	100%	100%	80%			2020
<b>Subwatershed</b>	<b>040500060703</b>	<b>Sand Creek</b>									
040500060703-01	River	5	1,117	73.1%	1	100%	60%	60%			2020
<b>Subwatershed</b>	<b>040500060705</b>	<b>Ottawa Creek-Grand River</b>									
040500060705-01	River	38	150		25	80%	24%	3%		Data2	2020
<b>Subwatershed</b>	<b>040500060708</b>	<b>Jubb Bayou-Grand River</b>									
040500060708-01	River	38	149		25	80%	24%	3%		Data2	2020

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Subwatershed	040500060712	Grand River									
040500060712-02	River	32	82		20	25%	16%	3%			2020
Watershed	04050007	Thornapple									
Subwatershed	040500070102	Milbourn Allen and Crane Drain-Thornapple River									
040500070102-02	River	5	822	63.5%	1	100%	100%	20%			2020
Subwatershed	040500070210	Cedar Creek									
040500070210-03	River	5	681	56.0%	1	100%	80%	20%			2020
Subwatershed	040500070307										
040500070307-02	River	25	238		17	100%	48%	8%			2020
Subwatershed	040500070401	Fall Creek									
040500070401-01	River	5	551	45.5%	1	100%	80%	20%			2020
Subwatershed	040500070403	Glass Creek									
040500070403-01	River	5	375	19.9%	1	100%	80%	0%			2020
Subwatershed	040500070406	Turner Creek-Thornapple River									
040500070406-01	River	5	244		1	100%	0%	0%			2020
Subwatershed	040500070407	McCords Creek-Thornapple River									
040500070407-01	River	9	45		1	0%	22%	0%			2020
040500070407-03	River	5	309	2.9%	1	100%	40%	0%			2020
Watershed	04060101	Pere Marquette-White									
Subwatershed	040601010103	Freeman Creek-Big Sable River									
040601010103-01	River	5	153		1	100%	20%	0%			2020
040601010103-02	River	5	716	58.1%	1	100%	100%	40%			2020

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<b>Subwatershed</b>	<b>040601010104</b>	<b>Big Sable River</b>									
040601010104-01	River	5	153		1	100%	20%	0%		Data2	2020
040601010104-03	River	5	619	51.5%	1	100%	80%	20%			2020
<b>Subwatershed</b>	<b>040601010702</b>	<b>Fivemile Creek</b>									
040601010702-01	River	4	85		0		50%	0%		Data1	2020
<b>Subwatershed</b>	<b>040601010703</b>	<b>Flinton Creek-South Branch White River</b>									
040601010703-01	River	5	325	7.7%	1	100%	60%	0%			2020
<b>Subwatershed</b>	<b>040601010704</b>	<b>Black Creek-South Branch White River</b>									
040601010704-01	River	8	170		1	100%	25%	0%			2020
<b>Subwatershed</b>	<b>040601010705</b>	<b>Martin Creek-South Branch White River</b>									
040601010705-01	River	10	146		2	100%	10%	0%		Data2	2020
<b>Subwatershed</b>	<b>040601010706</b>	<b>Brayton Drain-South Branch White River</b>									
040601010706-01	River	10	146		2	100%	10%	0%		Data2	2020
040601010706-03	River	5	1,966	84.7%	1	100%	100%	100%			2020
<b>Subwatershed</b>	<b>040601010707</b>	<b>South Branch White River</b>									
040601010707-02	River	5	332	9.7%	1	100%	60%	0%			2020
040601010707-03	River	10	146		2	100%	10%	0%		Data2	2020
040601010707-04	River	5	501	40.1%	1	100%	100%	0%			2020
<b>Subwatershed</b>	<b>040601010802</b>	<b>Robinson Creek</b>									
040601010802-01	River	5	364	17.6%	1	100%	60%	0%			2020
<b>Subwatershed</b>	<b>040601010803</b>	<b>Osborn Creek-North Branch White River</b>									
040601010803-02	River	5	401	25.3%	1	100%	80%	0%			2020
040601010803-03	River	15	286		3	100%	53%	0%		Data2	2020

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Subwatershed	040601010804	North Branch White River									
040601010804-04	River	4	81		0		0%	0%		Data1	2020
Subwatershed	040601010901	Sand Creek-White River									
040601010901-04	River	5	160		1	100%	20%	0%			2020
Subwatershed	040601010902	Carlton Creek									
040601010902-02	River	5	392	23.5%	1	100%	100%	0%			2020
Subwatershed	040601010904	White River									
040601010904-06	River	15	286		3	100%	53%	0%		Data2	2020
Subwatershed	040601011004	Bigsbie Lake-Frontal Lake Michigan									
040601011004-09	River	81	409	26.7%	4	100%	64%	30%			2020
Subwatershed	040601011007	Flower Creek									
040601011007-01	River	23	361	16.9%	2	100%	65%	26%			2020
Watershed	04060102	Muskegon									
Subwatershed	040601020303	Pleasant Lake-Clam River									
040601020303-01	River	5	222		1	100%	20%	20%		Data2	2020
Watershed	04060103	Manistee									
Subwatershed	040601030304	Fletcher Creek									
040601030304-01	River	10	219		2	100%	40%	0%			2020
Subwatershed	040601030603	Stronach Creek									
040601030603-02	River	5	145		1	100%	40%	0%			2020
Watershed	04060104	Betsie-Platte									
Subwatershed	040601040404	Arcadia Lake									
040601040404-02	River	5	173		1	100%	20%	0%			2020

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Subwatershed	040601040406	Lower Herring Lake-Frontal Lake Michigan									
040601040406-01	River	10	276		2	100%	50%	0%			2020
Watershed	04060105	Boardman Charlevoix									
Subwatershed	040601050204	Jordan River									
040601050204-03	River	9	252		1	100%	56%	11%			2020
Subwatershed	040601050207	Lake Charlevoix									
040601050207-02	River	9	337	11.1%	1	100%	67%	0%			2020
040601050207-03	River	9	155		1	0%	22%	22%			2020
040601050207-04	River	9	186		1	0%	22%	11%			2020
040601050207-05	River	9	455	34.1%	1	100%	78%	11%			2020
040601050207-15	River	5	204		1	100%	0%	0%			2020
Subwatershed	040601050507	Boardman River									
040601050507-01	River	15	443	32.3%	3	100%	87%	0%			2020
Subwatershed	040601050708	Belangers Creek-Frontal Grand Traverse Bay									
040601050708-05	River	5	168		1	100%	20%	0%			2020
Watershed	04080101	Au Gres-Rifle									
Subwatershed	040801010405	Flower Lake-West Branch Rifle River									
040801010405-01	River	10	286		2	100%	50%	0%			2020
Subwatershed	040801010406	West Branch Rifle River									
040801010406-01	River	10	211		2	50%	30%	10%		Data2	2020
040801010406-03	River	5	416	27.9%	1	100%	60%	20%			2020
Subwatershed	040801010407	Eddy Creek-Rifle River									
040801010407-01	River	5	148		1	100%	20%	0%			2020

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<b>Subwatershed</b>	<b>040801010410</b>	<b>Silver Creek-Rifle River</b>									
040801010410-01	River	5	398	24.6%	1	100%	80%	0%			2020
040801010410-03	River	5	191		1	100%	40%	0%			2020
<b>Subwatershed</b>	<b>040801010412</b>	<b>Rifle River</b>									
040801010412-01	River	5	217		1	100%	40%	20%		Data2	2020
040801010412-02	River	5	217		1	100%	40%	20%			2020
<b>Subwatershed</b>	<b>040801010502</b>	<b>Big Creek-Frontal Lake Huron</b>									
040801010502-01	River	5	217		1	100%	40%	20%		Data2	2020
<b>Watershed</b>	<b>04080103</b>	<b>Pigeon-Wiscoggin</b>									
<b>Subwatershed</b>	<b>040801030203</b>	<b>West Branch Extension-Pigeon River</b>									
040801030203-01	River	15	203		1	100%	53%	0%			2020
<b>Subwatershed</b>	<b>040801030204</b>	<b>Pigeon River</b>									
040801030204-01	River	20	155		2	100%	25%	0%			2020
040801030204-02	River	4	171		0		25%	25%		Data1	2020
040801030204-03	River	5	264		1	100%	20%	0%		Data2	2020
<b>Subwatershed</b>	<b>040801030407</b>	<b>New River</b>									
040801030407-01	River	5	122		1	0%	20%	20%			2020
<b>Watershed</b>	<b>04080104</b>	<b>Birch-Willow</b>									
<b>Subwatershed</b>	<b>040801040101</b>	<b>East Branch Willow Creek</b>									
040801040101-01	River	9	679	55.8%	1	100%	78%	44%			2020
<b>Subwatershed</b>	<b>040801040102</b>	<b>Stewart Drain-Willow Creek</b>									
040801040102-01	River	5	305	1.7%	1	100%	40%	0%			2020
<b>Subwatershed</b>	<b>040801040103</b>	<b>Willow Creek</b>									
040801040103-01	River	10	482	37.8%	1	100%	50%	30%			2020

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<b>Watershed</b>	04080202		<b>Pine</b>								
<b>Subwatershed</b>	040802020103	<b>Bulls Creek-North Branch Chippewa River</b>									
040802020103-01	River	5	330	9.1%	1	100%	60%	0%			2020
<b>Subwatershed</b>	040802020201	<b>Bamber Creek-Chippewa River</b>									
040802020201-01	River	5	153		1	100%	0%	0%			2020
<b>Subwatershed</b>	040802020203	<b>Lake Windaga-Walker Creek</b>									
040802020203-01	River	8	260		1	100%	63%	0%			2020
<b>Subwatershed</b>	040802020204	<b>Coldwater River</b>									
040802020204-02	River	5	339	11.4%	1	100%	60%	0%			2020
040802020204-04	River	5	91		1	0%	20%	0%			2020
<b>Subwatershed</b>	040802020301	<b>Pony Creek</b>									
040802020301-01	River	5	210		1	100%	20%	0%			2020
<b>Subwatershed</b>	040802020302	<b>Pine River above Pony Creek</b>									
040802020302-01	River	5	299		1	100%	40%	0%			2020
<b>Subwatershed</b>	040802020303	<b>Skunk Creek-Pine River</b>									
040802020303-01	River	19	318	5.6%	3	67%	37%	16%		Data2	2020
<b>Subwatershed</b>	040802020304	<b>Wolf Creek</b>									
040802020304-01	River	5	364	17.6%	1	100%	60%	0%			2020
<b>Subwatershed</b>	040802020305	<b>Christianson Oil Field-Pine River</b>									
040802020305-01	River	24	362	17.2%	4	75%	46%	21%		Data2	2020
040802020305-02	River	5	594	49.5%	1	100%	80%	40%			2020

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<b>Subwatershed</b>	<b>040802020306</b>	<b>North Branch Pine River</b>									
040802020306-01	River	5	708	57.7%	1	100%	100%	20%			2020
040802020306-02	River	6	701	57.2%	1	100%	33%	33%			2020
040802020306-04	River	5	249		1	100%	60%	0%			2020
<b>Subwatershed</b>	<b>040802020307</b>	<b>Bass Lake Drain-Pine River</b>									
040802020307-01	River	29	665	54.9%	4	100%	66%	31%		Data2	2020
040802020307-02	River	5	445	32.6%	1	100%	60%	20%			2020
<b>Subwatershed</b>	<b>040802020308</b>	<b>Carpenter Creek-Pine River</b>									
040802020308-01	River	27	294		1	100%	41%	11%			2020
<b>Subwatershed</b>	<b>040802020312</b>	<b>Newark and Arcadia Drain-Pine River</b>									
040802020312-02	River	9	714	58.0%	1	100%	67%	22%			2020
<b>Subwatershed</b>	<b>040802020503</b>	<b>Childs Creek-Salt Creek</b>									
040802020503-01	River	9	580	48.3%	1	100%	78%	22%			2020
<b>Watershed</b>	<b>04080204</b>	<b>Flint</b>									
<b>Subwatershed</b>	<b>040802040304</b>	<b>West Branch Swartz Creek</b>									
040802040304-01	River	5	921	67.4%	1	100%	80%	40%			2020
<b>Subwatershed</b>	<b>040802040305</b>	<b>Indian Creek-Swartz Creek</b>									
040802040305-01	River	5	445	32.6%	1	100%	80%	0%			2020
040802040305-02	River	5	1,190	74.8%	1	100%	100%	60%			2020
<b>Subwatershed</b>	<b>040802040306</b>	<b>Thread Creek</b>									
040802040306-01	River	9	456	34.2%	1	100%	67%	33%		Data2	2020
040802040306-02	River	9	456	34.2%	1	100%	67%	33%			2020
040802040306-04	River	5	445	32.6%	1	100%	60%	0%			2020

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Subwatershed	040802040307	Swartz Creek									
040802040307-01	River	10	1,961	84.7%	2	100%	100%	80%			2020
Subwatershed	040802040404	Duck Creek-Kearsley Creek									
040802040404-01	River	5	538	44.3%	1	100%	80%	40%			2020
040802040404-06	River	5	294		1	100%	40%	0%			2020
Subwatershed	040802040405	Cummings Drain-Kearsley Creek									
040802040405-02	River	14	416	27.9%	2	100%	64%	36%			2020
Subwatershed	040802040406	Black Creek									
040802040406-03	River	15	127		7	71%	13%	13%			2020
Subwatershed	040802040408	Kearsley Creek									
040802040408-02	River	13	482	37.8%	1	100%	62%	23%			2020
Subwatershed	040802040410	Gilkey Creek-Flint River									
040802040410-01	River	12	155		4	75%	17%	0%			2020
040802040410-02	River	5	285		1	100%	40%	0%			2020
Subwatershed	040802040501	Cole Creek-Flint River									
040802040501-01	River	5	989	69.7%	1	100%	100%	40%			2020
040802040501-02	River	5	200		1	100%	40%	20%			2020
Watershed	04090003	Clinton									
Subwatershed	040900030101	Green Lake-Clinton River									
040900030101-01	River	5	476	37.0%	1	100%	60%	20%			2020
040900030101-10	River	5	263		1	100%	40%	0%			2020
Subwatershed	040900030102	Sashabaw Creek									
040900030102-03	River	9	413	27.3%	1	100%	56%	33%			2020

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Subwatershed	040900030108	Pontiac Creek-Clinton River									
040900030108-02	River	5	236		1	100%	20%	0%			2020
Watershed	04100001	Ottawa-Stony									
Subwatershed	041000010102	North Branch Swan Creek									
041000010102-01	River	5	2,442	87.7%	1	100%	100%	80%			2020
Subwatershed	041000010103	Middle Creek-Swan Creek									
041000010103-01	River	154	34		2	100%	9%	5%			2020
Subwatershed	041000010104	Swan Creek									
041000010104-01	River	15	2,584	88.4%	3	100%	100%	73%		Data2	2020
041000010104-02	River	5	2,982	89.9%	1	100%	100%	80%			2020
Subwatershed	041000010107	Stony Creek									
041000010107-02	River	10	625	52.0%	2	100%	100%	20%			2020
Subwatershed	041000010108	Sandy Creek-Lake Erie									
041000010108-02	River	5	6,026	95.0%	1	100%	100%	100%			2020
041000010108-04	River	5	1,939	84.5%	1	100%	100%	60%			2020